

## **I. AMENDMENTS UNDER REVISED 37 C.F.R. § 1.121**

### **A. Amendments to the Specification**

Please replace paragraph [0015] with the following amended paragraph:

[0015] In still another aspect of the invention, a lamp includes a waveguide having a body including a solid dielectric material and a side determined by a waveguide outer surface from which depends a lamp chamber. The chamber aperture is circumscribed by a bulb ~~envelope~~ support structure sealed to the outer surface. The lamp further includes a microwave probe positioned within and in intimate contact with the body, adapted to couple microwave energy into the body from a microwave source having an output and an input and operating within a frequency range from about 0.5 to about 30 GHz at a preselected frequency and intensity. The probe is connected to the source output. The frequency and intensity and the body shape and dimensions are selected such that the body resonates in at least one resonant mode having at least one electric field maximum. The lamp further includes a self-enclosed bulb ~~envelope~~ substantially within the chamber and hermetically sealed to the bulb ~~envelope~~ support structure. The bulb ~~envelope~~ contains a gas-fill which when receiving microwave energy from the resonating body main portion forms a light-emitting plasma.

Please replace paragraph [0019] with the following amended paragraph:

[0019] FIGs. 3A and 3B illustrate a sectional view of an alternative embodiment of a DWIPL wherein the a self-enclosed bulb ~~envelope~~ is thermally isolated from the dielectric waveguide.

Please replace paragraph [0044] with the following amended paragraph:

[0044] FIGs. 3A and 3B illustrate a DWIPL 300 wherein a vacuum gap acts as a thermal barrier. As shown in FIG. 3A, DWIPL 300 includes a self-enclosed bulb envelope 313 disposed within a lamp chamber 315 which is separated from body 312 of a waveguide 311 by a vacuum gap 317 whose thickness is dependent upon microwave propagation characteristics and the material strengths of waveguide body 312 and bulb envelope 313. The vacuum minimizes heat transfer between the bulb and waveguide.

Please replace paragraph [0045] with the following amended paragraph:

[0045] FIG. 3B illustrates a magnified view of bulb envelope 313, chamber 315 and vacuum gap 317. The boundaries of gap 317 are formed by the waveguide 311, a bulb envelope support structure 319, and bulb envelope 313. Support structure 319 is sealed to the waveguide and extends over the edges of chamber 315. The support structure includes a material having high thermal conductivity, such as alumina, to help dissipate heat from the bulb.

Please replace paragraph [0046] with the following amended paragraph:

[0046] Embedded in support structure 319 is an access seal 321 which maintains a vacuum within gap 317 when bulb envelope 313 is in place. Preferably, the bulb envelope 313 is supported by and hermetically sealed to support structure 319. Once a vacuum is established in gap 317, heat transfer between the bulb envelope and waveguide is substantially reduced.